I CLAIM:

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- 1. A polarizing glass article comprising a base glass and precipitated silver particles wherein the polarizing glass article exhibits a contrast ratio of at least 40 dB over a wavelength range of 880 nm to 1,690 nm and a bandwidth of 810 nm.
- 2. A glass article according to claim 1 having a high transmittance value.
- 3. A glass article according to claim 2 wherein the transmittance value is above 90 percent at the wavelength ranging from 880 nm to 1,690 nm.
 - 4. A polarizing glass article comprising a base glass and precipitated silver particles wherein the polarizing glass article exhibits a contrast ratio of at least 50 dB over a wavelength range of 980 nm to 1,640 nm and a bandwidth of 660 nm.

5. A glass article according to claim 1 having a high transmittance value.

- 6. A glass article according to claim 5 wherein the transmittance value is above 90 percent at the wavelength ranging from 980 nm to 1,640 nm.
- 7. A glass article according to claim 6 wherein the glass article has a center wavelength of at least 1,550 nm or longer.
- 8. A glass article according to claim 1 wherein the base glass has a composition consisting essentially, in weight percent, of about 0-2.5% Li₂O, 0-9% Na₂O, 0-17% K₂O, 0-6% Cs₂O, 8-20% total of Li₂O+- Na₂O+K₂O+Cs₂O, 14-23% B₂O₃, 5-25% Al₂O₃, 0-25% P₂O₅, 20-65% SiO₂, 0.004-0.02% CuO, 0.15-0.3% Ag, 0.1-0.2% Br, and 0.1-0.25% Cl.
- 9. A glass article according to claim 8 including as optional constituents, up to about 10% total of other oxides or elements selected in amounts not exceeding the indicated proportions from the group consisting of up to 6% ZrO₂, up to 3% TiO₂, up to

0.5% PbO, up to 7% BaO, up to 4% CaO, up to 3% MgO, up to 6% Nb₂O₅, up to 4% La₂O₃ and up to 2%F.

10. A process for broadening the wavelength range of dichroic glass polarizer comprising a base glass and precipitated silver particles, comprising the step of heating the glass at a temperature ranging from 400 to 450°C in a reducing atmosphere for a period of time greater than 12 hours, wherein the resulting polarizing glass exhibits a contrast ratio of at least 40 dB over a wavelength range of 880 nm to 1,690 nm and a bandwidth of 810 nm.

11. A process according to claim 10 wherein the broadening is made by enlargement of the wavelength range to a shorter wavelength region.

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- 12. A process according to claim 10 wherein the reducing step is carried out at least one atmospheric pressure of reducing gas.
 - 13. A process according to claim 12 wherein the atmosphere pressure of the reducing gas multiplied by the period of time is greater than 12.
- 20 14. A process according to claim 12 wherein the atmosphere pressure of the reducing gas multiplied by the period of time is greater than 24.
 - 15. A process according to claim 10 wherein the temperature ranges from 405 to 450°C and the time is greater than 24 hours.
 - 16. A process according to claim 10 wherein the temperature ranges from higher than 405 to 450°C and the time ranges from 16 to 24 hours.
 - 17. A process according to claim 10 wherein the reducing atmosphere is hydrogen.
 - 18. A process according to claim 10 wherein the contrast ratio is greater than 40dB.

- 19. A process according to claim 10 wherein the heating is carried out for 8 hours at a pressure of 3 atmospheres.
- 20. A process according to claim 10 wherein the heating is carried out for 6 hours at
 a pressure of 4 atmospheres.